

ABSTRACT

"METHOD AND KIT FOR THE DETECTION OF SCHISTOSOMIASIS
BY POLYMERASE CHAIN REACTION"

The object of the present invention is the detection of *Schistosoma sp.* in biological samples through PCR.

A first embodiment of the present invention relates to a method for the diagnosis of Schistosomiasis through the amplification by PCR of the DNA sequence of *Schistosoma sp.*, followed by the separation of the products of the amplification by electrophoresis and the detection by appropriate technique.

In a second embodiment, the invention is directed for a kit for the diagnosis to be used in the detection of Schistosomiasis. A basic kit includes all the necessary reagents for carrying out the PCR technique, namely specific primers, nucleotide and appropriate buffer solution for the amplification by PCR.

Optionally, the kit may contain the enzyme *Taq* polymerase in sufficient quantities for the amplification, standard DNA to be used as positive control of the reaction, buffer solution of the sample to prepare the amplified material for electrophoresis and protocol and instruction manual for the user.